

<h1 style="margin: 0;">PCT</h1> <h2 style="margin: 10px 0 0 0;">REQUEST</h2> <p style="margin: 10px 0 0 0;">The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.</p>	<div style="border: 1px solid black; padding: 2px; text-align: center;">For receiving Office use only</div> <div style="border: 1px solid black; padding: 2px;">International Application No.</div> <div style="border: 1px solid black; padding: 2px;">International Filing Date</div> <div style="border: 1px solid black; padding: 2px;">Name of receiving Office and "PCT International Application"</div> <div style="border: 1px solid black; padding: 2px;"> Applicant's or agent's file reference (if desired) (12 characters maximum) <div style="float: right;">26148.029.40-WO</div> </div>
<b>Box No. I      TITLE OF INVENTION</b>  A RADIOMETRIC APPROACH TO TEMPERATURE MONITORING IN THE MR SCANNER	
<b>Box No. II      APPLICANT</b> <div style="float: right;"><input checked="" type="checkbox"/> This person is also inventor</div>	
Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</i>  EL-SHARKWY, Abdel-Monem 4 East 32 Street Apartment 505 Baltimore, Maryland 21218 United States of America	<div style="border: 1px solid black; padding: 2px;">Telephone No.</div> <div style="border: 1px solid black; padding: 2px;">Facsimile No.</div> <div style="border: 1px solid black; padding: 2px;">Teleprinter No.</div> <div style="border: 1px solid black; padding: 2px;">Applicant's registration No. with the Office</div>
State (that is, country) of nationality: <div style="text-align: center;">GB</div>	State (that is, country) of residence: <div style="text-align: center;">US</div>
This person is applicant for the purposes of: <div style="display: inline-block; margin: 0 10px;"> <input type="checkbox"/> all designated States </div> <div style="display: inline-block; margin: 0 10px;"> <input type="checkbox"/> all designated States except the United States of America </div> <div style="display: inline-block; margin: 0 10px;"> <input checked="" type="checkbox"/> the United States of America only </div> <div style="display: inline-block;"> <input type="checkbox"/> the States indicated in the Supplemental Box </div>	
<b>Box No. III      FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)</b>	
Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</i>  ATALAR, Ergin 5206 Wood Stove Lane Columbia, Maryland 21045 United States of America	<div style="border: 1px solid black; padding: 2px;">This person is:</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <input type="checkbox"/> applicant only </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <input checked="" type="checkbox"/> applicant and inventor </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i> </div> <div style="border: 1px solid black; padding: 2px;">Applicant's registration No. with the Office</div>
State (that is, country) of nationality: <div style="text-align: center;">US</div>	State (that is, country) of residence: <div style="text-align: center;">US</div>
This person is applicant for the purposes of: <div style="display: inline-block; margin: 0 10px;"> <input type="checkbox"/> all designated States </div> <div style="display: inline-block; margin: 0 10px;"> <input type="checkbox"/> all designated States except the United States of America </div> <div style="display: inline-block; margin: 0 10px;"> <input checked="" type="checkbox"/> the United States of America only </div> <div style="display: inline-block;"> <input type="checkbox"/> the States indicated in the Supplemental Box </div>	
<input checked="" type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet.	
<b>Box No. IV      AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE</b>	
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: <div style="float: right;"> <input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative </div>	
Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)</i>  KRESLOFF, Mark R. McKenna Long & Aldridge LLP 1900 K Street, N.W. Washington, DC 20006 United States of America	<div style="border: 1px solid black; padding: 2px;">Telephone No.</div> <div style="text-align: center;">(202) 496-7513</div> <div style="border: 1px solid black; padding: 2px;">Facsimile No.</div> <div style="text-align: center;">(202) 496-7756</div> <div style="border: 1px solid black; padding: 2px;">Teleprinter No.</div> <div style="border: 1px solid black; padding: 2px;">Agent's registration No. with the Office</div> <div style="text-align: center;">42,766</div>
<input type="checkbox"/> Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.	

**Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)**

*If none of the following sub-boxes is used, this sheet should not be included in the request.*

<p>Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</i></p> <p style="text-align: center;">JOHNS HOPKINS UNIVERSITY Baltimore, MD 21205 United States of America</p>	<p>This person is:</p> <p><input checked="" type="checkbox"/> applicant only</p> <p><input type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i></p> <p>Applicant's registration No. with the Office</p>
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<p>State <i>(that is, country)</i> of nationality: US</p>	<p>State <i>(that is, country)</i> of residence: US</p>
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<p>This person is applicant for the purposes of:</p>	<p><input type="checkbox"/> all designated States</p>	<p><input checked="" type="checkbox"/> all designated States except the United States of America</p>	<p><input type="checkbox"/> the United States of America only</p>	<p><input type="checkbox"/> the States indicated in the Supplemental Box</p>
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<p>Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</i></p>	<p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i></p> <p>Applicant's registration No. with the Office</p>
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<p>State <i>(that is, country)</i> of nationality:</p>	<p>State <i>(that is, country)</i> of residence:</p>
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<p>This person is applicant for the purposes of:</p>	<p><input type="checkbox"/> all designated States</p>	<p><input type="checkbox"/> all designated States except the United States of America</p>	<p><input type="checkbox"/> the United States of America only</p>	<p><input type="checkbox"/> the States indicated in the Supplemental Box</p>
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<p>State <i>(that is, country)</i> of nationality:</p>	<p>State <i>(that is, country)</i> of residence:</p>
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<p>This person is applicant for the purposes of:</p>	<p><input type="checkbox"/> all designated States</p>	<p><input type="checkbox"/> all designated States except the United States of America</p>	<p><input type="checkbox"/> the United States of America only</p>	<p><input type="checkbox"/> the States indicated in the Supplemental Box</p>
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<p>Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</i></p>	<p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i></p> <p>Applicant's registration No. with the Office</p>
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<p>State <i>(that is, country)</i> of nationality:</p>	<p>State <i>(that is, country)</i> of residence:</p>
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<p>This person is applicant for the purposes of:</p>	<p><input type="checkbox"/> all designated States</p>	<p><input type="checkbox"/> all designated States except the United States of America</p>	<p><input type="checkbox"/> the United States of America only</p>	<p><input type="checkbox"/> the States indicated in the Supplemental Box</p>
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<p><input type="checkbox"/></p>	<p>Further applicants and/or (further) inventors are indicated on another continuation sheet.</p>
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**Box No. V DESIGNATIONS**

The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.

However,

- ☐ DE Germany is not designated for any kind of national protection.
- ☐ KR Republic of Korea is not designated for any kind of national protection.
- ☐ RU Russian Federation is not designated for any kind of national protection.

*(The check-boxes above may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. See the Notes to Box No. V as to the consequences of such national law provisions in these and certain other States.)*

**Box No. VI PRIORITY CLAIM**

The priority of the following earlier application(s) is hereby claimed:

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country or Member of WTO	regional application:* regional Office	international application receiving Office
item (1) 07 July 2003 (07.07.2003)	60/485,299	US		
item (2)				
item (3)				

☐ Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:

☒ all items ☐ item (1) ☐ item (2) ☐ item (3) ☐ other, see Supplemental Box

\* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)).

**Box No. VII INTERNATIONAL SEARCHING AUTHORITY**

Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code maybe used):

ISA /

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year)

Number

Country (or regional Office)

**Box No. VIII DECLARATIONS**

The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):

Number of  
declarations

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Box No. VIII (i)   | Declaration as to the identity of the inventor   | : |
| <input type="checkbox"/> Box No. VIII (ii)  | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent             | : |
| <input type="checkbox"/> Box No. VIII (iii) | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | : |
| <input type="checkbox"/> Box No. VIII (iv)  | Declaration of inventorship (only for the purposes of the designation of the United States of America)                               | : |
| <input type="checkbox"/> Box No. VIII (v)   | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty   | : |

**Box No. IX CHECK LIST; LANGUAGE OF FILING**

This international application contains:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items
(a) in paper form, the following number of sheets:	1. <input checked="" type="checkbox"/> fee calculation sheet	1
request (including declaration sheets) : 3	2. <input type="checkbox"/> original separate power of attorney	
description (excluding sequence listings and/or tables related thereto) : 23	3. <input type="checkbox"/> original general power of attorney	
claims : 6	4. <input type="checkbox"/> copy of general power of attorney; reference number, if any:	
abstract : 1	5. <input type="checkbox"/> statement explaining lack of signature	
drawings : 7	6. <input checked="" type="checkbox"/> priority document(s) identified in Box No. VI as item(s): Item (1)	1
<b>Sub-total number of sheets</b> : 40	7. <input type="checkbox"/> translation of international application into (language):	
sequence listings :	8. <input type="checkbox"/> separate indications concerning deposited microorganisms or other biological material	
tables related thereto :	9. <input type="checkbox"/> sequence listing in computer readable form (indicate type and number of carriers)	
(for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below)	(i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)	
<b>Total number of sheets</b> : 40	(ii) <input type="checkbox"/> (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter	
(b) <input type="checkbox"/> only in computer readable form (Section 801(a)(i))	(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listings part mentioned in left column	
(i) <input type="checkbox"/> sequence listings	10. tables in computer readable form related to sequence listing (indicate type and number of carriers)	
(ii) <input type="checkbox"/> tables related thereto	(i) <input type="checkbox"/> copy submitted for the purposes of international search under Section 802 (b-quater) only (and not as part of the international application)	
(c) <input type="checkbox"/> also in computer readable form (Section 801(a)(ii))	(ii) <input type="checkbox"/> (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802 (b-quater)	
(i) <input type="checkbox"/> sequence listings	(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column	
(ii) <input type="checkbox"/> tables related thereto	11. other (specify):	
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the		
<input type="checkbox"/> sequence listing:		
<input type="checkbox"/> tables related thereto:		
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)		
Figure of the drawings which should accompany the abstract: 1	Language of filing of the international application: English	

**Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE**

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

  
 Mark R. Kresloff, Agent for Applicant(s)  
 MCKENNA LONG & ALDRIDGE LLP

For receiving Office use only		For International Bureau use only	
1. Date of actual receipt of the purported international application:		2. Drawings:	
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:		<input type="checkbox"/> received:	
4. Date of timely receipt of the required corrections under PCT Article 11(2):		<input type="checkbox"/> not received:	
5. International Searching Authority (if two or more are competent): ISA /		6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid.	
Date of receipt of the record copy by the International Bureau:			

This sheet is not part of and does not count as a sheet of the international application.

**PCT**  
**FEE CALCULATION SHEET**  
**Annex to the Request**

For receiving Office use only

International Application No.

Date stamp of the receiving Office

Applicant's or agent's  
file reference 26148.029.40-WO

Applicant Abdel-Monem El-Sharkwy, et al.

**CALCULATION OF PRESCRIBED FEES**

1. TRANSMITTAL FEE . . . . . 300.00 T

2. SEARCH FEE . . . . . 1,000.00 S

International search to be carried out by \_\_\_\_\_  
(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)

3. INTERNATIONAL FILING FEE

Where item (b) and/or (c) of Box No. IX apply, enter Sub-total number of sheets } 40  
Where item (b) and (c) of Box No. IX do not apply, enter Total number of sheets

☐ i1 first 30 sheets . . . . . 476.00 ☐ i1

☐ i2 10 x 12.00 = 120.00 ☐ i2  
number of sheets in fee per sheet  
excess of 30

☐ i3 additional component (only if sequence listing and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii):

400 x \_\_\_\_\_ = ☐ i3  
fee per sheet

Add amounts entered at i1, i2 and i3 and enter total at I . . . . . 596.00 I

(Applicants from certain States are entitled to a reduction of 75% of the international fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the international filing fee.)

4. FEE FOR PRIORITY DOCUMENT (if applicable) . . . . . 20.00 P

5. TOTAL FEES PAYABLE . . . . . \$ 1,916.00

Add amounts entered at T, S, I and P, and enter total in the TOTAL box

TOTAL

**MODE OF PAYMENT**

☐ authorization to charge deposit account (see below) ☐ postal money order ☐ cash ☐ coupons  
☒ cheque ☐ bank draft ☐ revenue stamps ☐ other (specify):

**AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT**

(This mode of payment may not be available at all receiving Offices)

☐ Authorization to charge the total fees indicated above.  
☒ This check-box may be marked only if the conditions for deposit accounts of the receiving office so permit) Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.  
☐ Authorization to charge the fee for priority document.

Receiving Office: RO/ US

Deposit Account No.: 50-0911

Date: 7 July 2004

Name: Mark R. Kresloff

Signature: 